

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor : Henn
Serial No. : 10/022,526
Filed : December 20, 2001
Art Unit : 2644
Confirmation Number : 2169
Examiner : Abul K. Azad
Title : Enhancing Source Coding Systems by Adaptive Transposition
Attorney Docket No. : SCHO0294

October 26, 2007

Commissioner for Patents
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Alexandria, VA 22313-1450

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The enclosed Certificate of Correction (PTO Form 1050) for the above-identified patent is submitted under Rule 322.

The correction requested involves mistakes made by the Patent Office.

The Office has incorrectly omitted line [30] Foreign Application Priority Data.
Please correct to read as follows: Dec. 22, 2000 (SE) 0004818-1.

Please see copies of the Filing Receipt, Published Application, and a printout of the Foreign Priority tab on PAIR, which all correctly list the above Foreign priority claim.

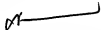
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Respectfully Submitted,



Michael A. Glenn
Reg. No. 30,176

Customer No. 22862

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,260,520

APPLICATION NO.: 10/022,526

ISSUE DATE : August 21, 2007

INVENTOR(S) : Fredrik Henn, Kristofer Kjorling, Per Ekstrand, Lars Villemoes

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

[30] Foreign Application Priority Data: Dec. 22, 2000 (SE) 0004818-1

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CERTIFICATE OF CORRECTION

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PATENT NO. : 7,260,520

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/022,526	12/20/2001	2644	435	0226-0113P	7	5	1

CONFIRMATION NO. 2169
UPDATED FILING RECEIPT


OC000000007710707

 2292
 BIRCH STEWART KOLASCH & BIRCH
 PO BOX 747
 FALLS CHURCH, VA 22040-0747

Date Mailed: 03/25/2002

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Applicant(s)

 Fredrik Henn, Bromma, SWEDEN;
 Kristofer Kjolring, Solna, SWEDEN;
 Per Ekstrand, Stockholm, SWEDEN;
 Lars Villemoes, Jarfalla, SWEDEN;

Domestic Priority data as claimed by applicant
Foreign Applications

SWEDEN 0004818-1 12/22/2000

← Correct

If Required, Foreign Filing License Granted 01/16/2002

Projected Publication Date: 07/04/2002

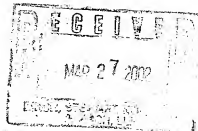
Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****
Title

Enhancing source coding systems by adaptive transposition

Preliminary Class



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PATENT APPLICATION FULL TEXT AND IMAGE DATABASE



(1 of 1)

United States Patent Application**20020118845****Kind Code****A1****Henn, Fredrik ; et al.****August 29, 2002**

Enhancing source coding systems by adaptive transposition

Abstract

The present invention relates to a new method for enhancement of source coding systems using high-frequency reconstruction. The invention teaches that tonal signals can be classified as either pulse-train-like or non-pulse-train-like. Relying on this classification, significant improvements on the perceived audio quality can be obtained by adaptive switching of transposers. The invention shows that the so-switched transposers must have fundamental differences in their characteristics.

Inventors: **Henn, Fredrik; (Bromma, SE) ; Kjorling, Kristofer; (Solna, SE) ; Ekstrand, Per; (Stockholm, SE) ; Villemoes, Lars; (Jarfalla, SE)**

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US**

Serial No.: **022526****Series Code:** **10****Filed:** **December 20, 2001****U.S. Current Class:****381/98; 381/56; 704/E21.011****U.S. Class at Publication:****381/98; 381/56****Intern'l Class:****H03G 005/00; H04R 029/00****Foreign Application Data**

Correct
→

Date
Dec 22, 2000

Code
SE

Application Number
0004818-1



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10/022,526

ENHANCING SOURCE CODING SYSTEMS BY A

Select New Case	Application Data	Transaction History	Image File Wrapper	Patent Term Adjustments	Foreign Priority
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Foreign Priority**Country**

SWEDEN

Priority

0004818-1

← Correct

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COPY

US007260520B2

(12) **United States Patent**
Henn et al.(10) **Patent No.:** **US 7,260,520 B2**
(45) **Date of Patent:** **Aug. 21, 2007**(54) **ENHANCING SOURCE CODING SYSTEMS
BY ADAPTIVE TRANSPOSITION**6,681,202 B1 * 1/2004 Miet et al. 704/214
6,732,070 B1 * 5/2004 Rotola-Pukkila et al. ... 704/219(75) **Inventors:** Fredrik Henn, Bromma (SE);
Kristofer Kjörling, Solna (SE); Per
Ekstrand, Stockholm (SE); Lars
Villemoes, Järfälla (SE)**FOREIGN PATENT DOCUMENTS**JP 6-177688 A 6/1994
KR 0129429 B1 4/1998
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WO WO 00/45379 A2 8/2000(73) **Assignee:** Coding Technologies AB, Stockholm
(SE)(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 901 days.**OTHER PUBLICATIONS**Yasukawa, Hiroshi; Implementation of Frequency Domain Digital
Filter for Speech Enhancement, Proceedings of the Third IEEE
International Conference on Electronics, Circuits, and Systems,
1996, ICECS '96, Oct. 13-16, 1996, vol. 1, pp. 518-521.(21) **Appl. No.:** 10/022,526(22) **Filed:** Dec. 20, 2001

* cited by examiner

(65) **Prior Publication Data***Primary Examiner*—Abul K. Azad(30) US 2002/018845 A1 Aug. 29, 2002
(51) Int. Cl. *(SE)* 0004818-1(74) *Attorney, Agent, or Firm*—Jeffrey Brill; Glenn Patent
Group

(52) U.S. CL. 704/212; 704/228

ABSTRACT(58) **Field of Classification Search** None
See application file for complete search history.

The present invention relates to a new method for enhance-
ment of source coding systems using high-frequency recon-
struction. The invention teaches that tonal signals can be
classified as either pulse-train-like or non-pulse-train-like.
Relying on this classification, significant improvements on
the perceived audio quality can be obtained by adaptive
switching of transposers. The invention shows that the
so-switched transposers must have fundamental differences
in their characteristics.

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14 Claims, 7 Drawing Sheets

